

Serial Number: 09/370,358

2. (Amended) The method of claim 1 wherein the step of incorporating an attachment tether to a receptor comprises incorporating at least one of the following tags from the group consisting of C-Histidine, N-Histidine, biotin, and GST tags.

C<sup>1</sup>  
correl.  
3. (Amended) The method of claim 1 wherein the step of incorporating an attachment tether to a receptor comprises incorporating a tag into an oligonucleotide.

4. (Twice Amended) The method of claim 1 wherein the step of incorporating an attachment tether to a receptor comprises incorporating a tag into a GPCR construct prior to amplification.

5. The method of claim 1 wherein the step of solubilizing the receptor comprises solubilizing by lysing cell membranes containing the receptor.

6. The method of claim 1 wherein the step of presenting the receptor in conjunction with a support comprises presenting by affinity coupling the receptor to a particulate substrate.

C<sup>2</sup>  
8. (Amended) The method of claim 1 wherein the step of presenting the receptors in conjunction with a support comprises presenting on a support comprising a Ni<sup>2+</sup> silica bead.

9. The method of claim 1 wherein the step of presenting the receptors in conjunction with a support comprises presenting a fluorescently labeled receptor.

C<sup>3</sup>  
10. (Amended) The method of claim 1 further comprising the step of (d) presenting at least one ligand to bind to the receptor, wherein said ligand is known to bind to the receptor.

11. The method of claim 10 wherein the step of presenting at least one ligand to bind to the receptor comprises presenting at least one fluorescently labeled ligand.
12. The method of claim 10 wherein the step of presenting at least one ligand to bind the receptor comprises presenting a library of ligands.
13. The method of claim 10 wherein the step of presenting at least one ligand to bind the receptor comprises presenting at least one ligand on a support.
15. The method of claim 10 further comprising the step of (e) combining the receptor and ligand to accomplish binding.
16. The method of claim 15 further comprising the step of (f) sorting the bound receptor ligand pairs by fluorescence.
17. The method of claim 16 wherein the step of sorting the bound receptor ligand pairs by fluorescence comprises sorting the bound receptor ligand pairs by flow cytometry.

*Sub E2*  
C4  
48. (New) A method for non-cellular display of 7-transmembrane receptors comprising the following steps:

- a) incorporating an attachment means to a receptor;
- b) solubilizing the receptor; and
- c) presenting the receptor in conjunction with a support;
- d) presenting at least one ligand to bind to the receptor, wherein said ligand is known to bind to the receptor; and
- e) combining the receptor and ligand to accomplish binding while the receptor is bound to the support.

49. (New) The method of claim 48 further comprising the step of (f) sorting the bound receptor ligand pairs by fluorescence.

50. (New) The method of claim 49, wherein the step of sorting the bound receptor ligand pairs by fluorescence comprises sorting the bound receptor ligand pairs by flow cytometry.

51. (New) The method of claim 49, wherein said step of sorting the bound receptor pairs by fluorescence is carried out while the receptor is bound to the support.

52. (New) The method of claim 51, wherein the step of sorting the bound receptor ligand pairs by fluorescence comprises sorting the bound receptor ligand pairs by flow cytometry.

53. (New) The method of claim 48, wherein said support comprises at least one substrate selected from the group consisting of silica bead substrates, latex bead substrates and other bead substrates appropriate for flow cytometry.

#### **REMARKS**

Favorable reconsideration of this application as presently amended is respectfully requested.

The Examiner is thanked for the courtesies extended to Applicants' representative during a November 14, 2001, telephonic interview. Applicants' record of the substance of the interview is contained in the following remarks.

With respect to the objection to Claim 4, this objection has been obviated by